FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/99
Date Received: 05/27/99
Project: Metro Self Monitor, PO# M62045
Date Samples Extracted: 06/11/99
Date Extracts Analyzed: 06/11/99

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010
Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)

Sample ID	Chromium	Copper	Nickel	Zinc
M62045	0.24	0.25	0.29	0.08
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 905140-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.24	0.24	0	0-20
Copper	mg/L (ppm)	0.25	0.24	4	0-20
Nickel	mg/L (ppm)	0.29	0.30	3	0-20
Zinc	mg/L (ppm)	0.08	0.09	12	0-20

Laboratory Code: 905140-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.24	95	93	80-120	2
Copper	mg/L (ppm)	5	0.25	98	95	80-120	3
Nickel	mg/L (ppm)	10	0.29	98	98	80-120	0
Zinc	mg/L (ppm)	5	0.08	99	99	80-120	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	102	103	80-120	1
Copper	mg/L (ppm)	5	95	101	80-120	6
Nickel	mg/L (ppm)	10	104	103	80-120	1
Zinc	mg/L (ppm)	5	96	100	80-120	4

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 14, 1999

DUPLICATE COPY

INVOICE #99ACU0614-1

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M62045: Results of testing requested by Gerry Thompson for material submitted on May 27, 1999.

1 water sample analyzed for Chromium, Copper, Nickel, and Zinc using Method 6010 @ $80 per sample	$ 80.00
Amount Due	$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.
3012·16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

9.0514.0

mm 5.27.99 A.I.

SAMPLE CHAIN OF CUSTODY

Send Report To: Alaska Copper Works Contact Gerald Thompson
Company
Address 628 Hanford St.
City, State, Zip Seattle WA
Phone # 206-382-8779 FAX # 206-382-4309 Date 5/27/99

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7238	Metro Sed Master	m 62045

SAMPLERS *(signature)*

PROJECT LOCATION: 3200 6th Ave S.

REMARKS

SAMPLE DISPOSAL INFORMATION
- ☐ Dispose after 30 days
- ☒ Return Samples
- ☐ Call for Instructions

Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested
m 62045	5/27/99 12:30	H_2O	1	01	Cr Cu Ni Zn

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by:	Gerald Thompson	ACW	5/27/99	12:50pm
Received by:	Hiroyuki Takai	F & B Inc	5/27/99	12:50
Relinquished by:				
Received by:				

FORMS/COC

05/11/99

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e-mail: fbi@isomedia.com

June 14, 1999

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 27, 1999 from your Metro Self Monitor, PO# M62045 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Manuel Marti
Project Manager

Enclosures
ACU0614R.DOC